

CLAIMS

~~Sub A2~~

A vacuum cleaner comprising an airflow path having a dirty air inlet and a clean air outlet, a fan for drawing an airflow along the airflow path from the dirty air inlet to the clean air outlet, a motor for driving the fan, separating apparatus for separating dirt and dust from the airflow, a pre-motor filter arranged upstream of the motor and a post-motor filter arranged downstream of the motor, wherein both the pre-motor filter and the post-motor filter are cylindrical filters

2. A vacuum cleaner as claimed in claim 1, wherein the airflow is arranged to flow radially outwardly through each of the filters when the vacuum cleaner is in use.

~~Sub A3~~

A vacuum cleaner as claimed in claim 1 or 2, wherein the pre-motor filter and the post-motor filter are each housed in a transparent casing.

4. A vacuum cleaner as claimed in claim 3, wherein the pre-motor filter and the post motor filter are housed in separate transparent casings.

5. A vacuum cleaner as claimed in claim 4, wherein the cylindrical filters are arranged coaxially and adjacent one another, the airflow path passing through the centre of the post-motor filter between the pre-motor filter and the motor.

6. A vacuum cleaner as claimed in claim 5, wherein the cylindrical filters are positioned generally upright and parallel to the separating apparatus, the upper end of the uppermost casing being held in place by means of a retractable collar.

7. A vacuum cleaner as claimed in claim 6, wherein the collar is biased into a non-retracted position in which the uppermost casing is retained in place.

~~Sub A4~~

A vacuum cleaner comprising an airflow path having a dirty air inlet and a clean air outlet, a fan for drawing an airflow along the airflow path from the dirty air inlet to

Sub A¹¹ the clean air outlet, a motor for driving the fan, separating apparatus for separating dirt and dust from the airflow, a pre-motor filter arranged upstream of the motor and a post-motor filter arranged downstream of the motor, wherein the post-motor filter is housed in a casing containing a plurality of slots or apertures, the slots or apertures forming the clean air outlet and being arranged such that, in use, the airflow is diffused as it leaves the clean air outlet.

9. A vacuum cleaner as claimed in claim 8, wherein the casing is cylindrical and the slots or apertures extend around at least part of the circumference thereof.

10. A vacuum cleaner as claimed in claim 9, wherein the slots or apertures extend around at least half of the circumference of the casing.

Sub A¹² A vacuum cleaner as claimed in any one of claims 8 to 10, wherein the casing is transparent.

Sub A¹³ A vacuum cleaner as claimed in any one of the preceding claims, wherein the airflow is arranged to pass across or around the motor to provide cooling.

Sub A¹⁴ A vacuum cleaner as claimed in any one of the preceding claims, wherein the separating apparatus comprise at least one cyclone.

Sub A¹⁵ A vacuum cleaner as claimed in claim 13, wherein the separating apparatus comprise two concentric cyclones.

Sub A¹⁶ A vacuum cleaner as claimed in any one of the preceding claims, wherein the pre-motor filter and the post-motor filter are substantially the same size.

Sub A¹⁷ A vacuum cleaner as claimed in claim 15, wherein the pre-motor filter and the post-motor filter have substantially the same characteristics.

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$$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$